

7032-4-127-374
FACIAL SURVEY REPORT

1970

1006.68 spent
200.00 on hand
100.00 (Darius)

1006.68 spent
105.00 gifts

1000
650
1650
1350

1400 cashed

1350.00
1117.55
232.45

970 spent
47 gifts
200 on hand
1217

25.66
53 $\overline{)1350}$
106
290
26
330
318
320

\$200 on hand
900 spent
47 Gifts

3000
1700
1300

932.28 spent

3/5

120.00 Hotel
20
20
Taxis
Food

120.000 Hotel

160.000
40.000 Gm
20.3
30 $\overline{)700}$
60
100

11
30 $\overline{)3300}$
30
30

25
20.3
75
500.0

25
110
250
2500
2750

3
30 $\overline{)900}$

25
36

31
6
25
28
53 days

Calls

Wilson's Warbler Wilsonia pusilla
- dry raspy call notes

Redstart Setophaga ruticilla
- high short clear chirp

Dusky-capped Flycatcher Myiarchus tuberculifer
- mournful whistle slurring down peer
low pitched.

Roadside Hawk Buteo wagleri
- distinct notes, loud "querulous" heya

Collared forest fawn Microtus semitorquatus
- nasal cow, cow, cow

Golden Fronted Woodpecker Centurus aurifrons
- flicker-like kek, kek, kek, kek
trilled very quickly!

Golden Olive Flycatcher Picus rubiginosus
- ~~May~~ May - a second syllable draws in
sharp / loud call

Rufous Breasted Spinetail Synallaxis erythrorhox
- emphatic notes ascending in pitch, dropping on last note
zhee - zhee - zhee - zho.

Barred Antshrike Thamnophrus olivatus
- k-k-k-k-cow accelerating/rolling
same pitch ends on higher note

Masked Tityra Tityra semifasciata
- grunting, nasal quest, quest

Couche's vs Tropical Kingbird
Couches single notes, high nasal
slurred queen vs, rapid twittering
picirireere

Boat-billed flycatcher - Megathyra pitanga
- rough rasping kee'rick.

Social flycatcher - Myiozetetes similis
- excited kree kiki'aroo'

^{preen}
Tropical Flycatcher, - Cortopus cuculus
- slightly trilled preen repeated

Least flycatcher - Empidonax minimus
- tail bobbing, voice wit

Sulphur-bellied flycatcher Myiodynastes luteiventris
- high penetrating kee'-zee'-ik!
or sound like squeezing rubber duck

Streaked Flycatcher Myiodynastes maculatus
- Sip Sip Sip seef? (rising on last syllable)

Gray Hawk Buteo nitidus
- mournful high pitched whistle

Plain Chachalaca Oreotyrus ventralis
- parrot like chache-la' but lower
pitch

Red-billed pigeon Columba flavicastris
ho'oo'oo'

Short-billed pigeon
who coo's for you?

White-winged dove
oo-oo-oo (last descending)

Inca dove
fast hoo-oo equal emphasis.

Common ground dove
oo'oo'oo'oo' equally speed

Ruddy ground dove
oup oup oup

White-tipped dove
forced air oo-o-oo

Magnolia warbler

- nasal relatively long "weeek"

Wilson's Warbler

- raspy long call notes

Vermillion Flycatcher

- pit-a-zee pit-pit-pita-zeech

Forked-tail flycatcher

- pebbly kerer

Piratic Flycatcher

- rising-~~falling~~ sweet followed by
didididi at level pitch

Boat Billed Flycatcher

- rough rasping khrrr ki khrrr

Great Crested Flycatcher

- loud whistled weep (rising in flight)

Ash throated flycatcher

- Pait, rolling chi-beer

Nuttalls flycatcher

- clear, penetrating whistled peer
less plaintive than Dusky capped

Brown-crowned Flycatcher

- sharp wht, a short prrr, rolling throaty pureer.
whit-pit-a-weer

Greater Pewee

- ho-sa-~~ma~~-re-ah. whistled thinly

Yellow Bellied Flycatcher

- spiritless, rising chur-wee

Willow Flycatcher

- sneezy fitzbow

Ruddy-tailed Flycatcher

- thin tsee'-oo-tee

Sulphur rumped Flycatcher

- sharp psit,

White-throated Spadebill

- tidit, ditarit.

Yellow-olive flycatcher

- thin hissing whistle

Yellow bellied Elaenia

- hoisy ~~peer or prang~~ pree-weer

Greenish Elaenia

- cheez-weez.

Green Jay

- nasally cheh with dry rattle

Band-backed wren

- suggestive of Green Jay

Rufous vireo

- howdiwit

Giant Wren

- nasally series of calls

Banded wren

- prrrr chechecheche witwitwit

Spot breasted Wren

- ascending ~~buzz~~ or trill
sweet purapi ya ya

White breasted Wood Wren

clear whistled phrases, repeated cheery-cheery-bee
or cheer-cheer-cheer

White bellied wren

musical, rhythmic tinkling and bubbling.

Northern Catbird

- nasally meow

Clay coloured Robin

- like an Robin & meow or meow

White throated Robin

- ?

Wood thrush

- pit pit pit

Veery

- low whistled phew

Swainson's Thrush

- abrupt whist

Hermit thrush

- low chuck, often doubled

White eyed Vireo

- wit whow didididit

§

Yellow throated Vireo

hoarse heh-heh-heh

Solitary Vireo

- one syllable red-eyed

Yellow green Vireo

- like red eyed / shorter shorter than Solitary

Lesser greenlet

- its a cheet

Red-legged Honeycreeper

tsip-tsip-daa-tsip-tsip-tsip-cha (nasal)

Yellow breasted Chat

- like knocking on a door

Orange Crowned Warbler

sharp chip

Nashville

sharp chirp

Black & White

emphatic chirp or high seep seep

Hooded

flat metallic chirp

Louisiana Waterthrush -

sharp chirp slightly flatter than NWST

Northern Waterthrush

metallic chirp

Common Yellowthroat

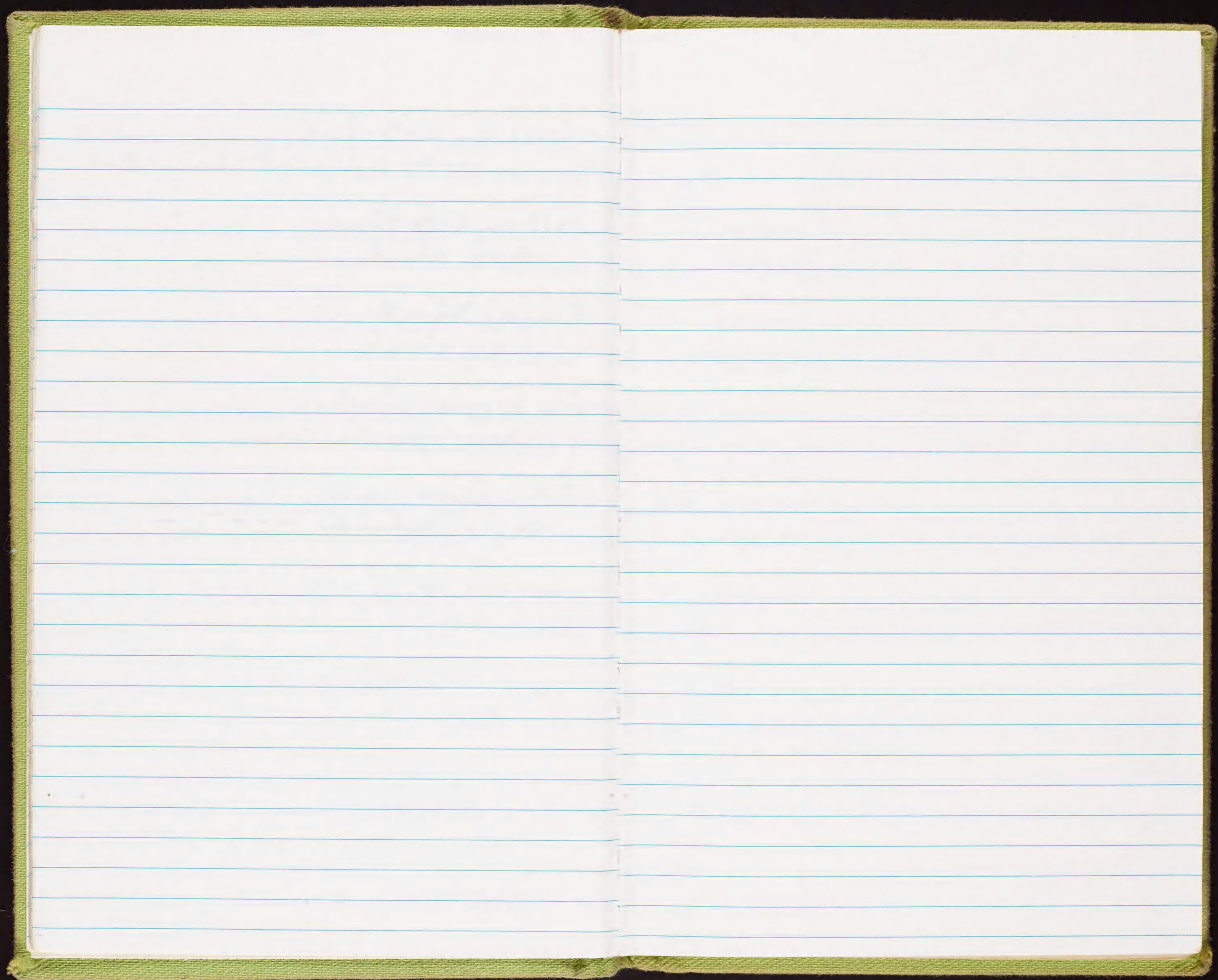
- raspy chuck

Gray-crowned Yellowthroat

- less raspy than Common.

Golden-crowned Warbler

- six clear whistled notes --- --



		U.S.	N.P.	
Salary	Javier	\$700	N\$300	800
	André	\$600		600

In Hand	CASH	N\$450	250
	Cheques	1600.	1600

\$	Salary	NP
1300		300
300		370
200	Javier Travel	
100		370
50	André Travel	50
50		320

\$	Salary	NP
1300		300
300		450
	To Villahermosa	200
300		250
100	Javier Travel	100
200		150
200	Javier Travel	
100		250
50	André Travel	
50		250

			\$U.S.
7/1	\$15.00	Taxi	15.00
	NP120.	Hotel	40.00
8/1	22.50	Bus	7.50
13/1	192.51 136.97	Food	45.63 64.17
	52.00	Oil change	17.33
	40.00	gas	13.33
14/1	58.00	gas	19.33
	25.00	photocopy	8.33
	143.10	Food	47.7
	143.10	Food	47.70
17/1	55.50	Food	18.50
	28.00	Camping Fee	9.33
18/1	46.00	Gas	15.33
	78.40	Food	26.13
24/1	110.00	Gas/Oil	36.66
25/1	125.78	Food	41.93
26/1	4.00	Gas	1.33
	208.20	Food	69.40
	210.00	Car repair	70.00
27/1	70.20	Gas	23.40
30/1	36.00	Food	12.00
8/2	136.00	Gas	45.33
	408.00	Food	36.00
5/2	89.00	Gas	29.66
6/2	10.00	Tire Repair	3.33
	15.00	Photocopy	5.00
	91.50		30.50

			\$U.S.
8/2	39.8	Food	95.50
	52.5	Gas	17.50
13/2	30.00	Gas	10.00
14/2	114.5	Food	38.16
15/2	136.00	Gas	45.33
	143.00	Food	47.66
16/2	47.00	Gas	15.67
9/1	102.8	Food	34.27
			932.28
9/2	114.00	Food	38.00
			970.28
18/2	216.50	Food	15.50
	20.00	Change ticket	6.67
	43.00	Gas	14.33
			1006.68
19/2	147	Food	49.00
20/2	96.00	Gas	32.00
23/2	53.60	Gas	17.87
24/2	60.00	Gas	20.00
	50.00	Gas	16.67
	22.00	Food	7.33
			110.87

Pt Counts - Birds

Date Loc or Site
 Observer Pt. #
 Species: # Weather
 Time

Vegetation Sampling - Pt Counts

Date
 Observers
 Pt #

Loc or Site # Stems in ea. dbh class
 Foliage wt Profile 0-5 5-10 10-20 >20

1

2

3

4

5

6

7

8

9

Objectives

- ① replicate point counts in arroyos of Chajul
look for similar situations with good
cross-section from north to south of
study area (≈ 250 points).
- ② look for the extremes that are opposite
to that found in Chajul - more isolated
or other criteria.
- ③ Agricultural land use?

- where can we get gas, food,
phones, water

- where can we stay and leave
tents set up for several days
to work in an area.

19 Jun 93 0720 Gallery Forest Rio Laanfa

Social Flycatcher
SBWW
NEBD ~~1~~
AMRE ()

2 0735

Leptopitca dor 11 ✓

Cassid 11 X

NEBD 1

RTAT (11) -

MAWA (1) ←

SOPL 1 ✓ ↓

AMRE (1) WWA (1) BGTA 1

3 0751

BGTA (1)

YELLOW

✓ JTR (1)

R

< DCFI (1)

SOPL 1

MATI 1

✓ AMRE (1)

~~WPS~~ WWP 1

YEWA (1)

MEBD (1)

✓ ~~BGTA~~ ^{BANA} (1)

✓ BHSA (1)

~~WTD~~ WTD 11

WJWA
MAWA

813

U

- SBPI ~~11~~ 11

- LTI 1

✓ SPWQ 1

- AMRE (1)

- HOWA (1)

- RTW (1)

- WIWA (1)

BANA 1

~~staring white~~ (1)

- SOFL R 11

RCAT 1

CCJA 11

WTSP 1

MATI 1

YWTA

MAWA

IDWC

BDCD

BFAT

0830

RTW (11)

~~SOFL~~ (1)

WIWA (1)

SPFI 1

- BANA (1)

PBWD 1

AMRE (1)
BBKI

~~1~~ 1

BT GW

YOH

VT EH

BA AS

CCTA

BIAT

GRTI

TL Manakin

OB EH

YBCH

SWQ

Co To

Grey

20 Jan

Lacanja Rio Area Palestina Rd
Nowine, some fog.
Pasture

BSI

WTDO

~~1~~

1

Catbird

~~1~~

~~1~~ 11

RT HU

(1)

MAWA

~~1~~

1

MAWA

(1)

UHU

2 705

past 2nd growth tall

Chachalaca

(1)

~~HEBT~~

Dusky Antwren

(1111)

BA

(1)

YLEA

1

MAWA

(1)

Toucan

11

Ceremon +

1

Li He

(11)

Catbird

(1)

Yellow ^{throat}

Flycatcher

(1)

RBS T

1

YBCH

(1)

SBPI

1

3 721

SBPI		1
WISA	(1)	
LIHT	(1)	
WIDO	(1)	
Jacamar		1
RTHU	(1)	
CITA	(1)	
WTSW	(1)	
BANA		1
AMRE		1

4 734

WBEN	(1)	
Parakee	(1)	
MacGillivray		
WUNA	(1)	1
Cercomacra		
BHSA	(1)	
Cercomacra		1
Tropical Gnatcatcher	(1)	
SDPI		11
AMRE ^a	(1)	
GBA ^{BGB}	(1)	
HowA	(1)	
BAAS		11

5 747

AMRE	(1)	
WUWA	(1)	
SDPI		11
BAAS		1
VITR		1
BEAT		1
TUUV	(11)	

6 801

VTUI	(1)	
WBWUB	(1)	
SDPI		1
Ramphocorypha	(1)	
MAWA	(1)	
AMRE	(11)	
VITR		1

7 814

GASH	(1)	
BTSA	(11)	
TRGN	(1)	
WBWW	(11)	
KEWA	(1)	
Rufous Mourner	(1)	
BAAS	(1)	
RTAT	(11)	

9 830

MAWA (111)

RTAT (1111)

CCTA (11)

CCW (1)

KEWA (1)

WIWA (1)

CSWA (1)

BAAS 1 11

RTTU (1)

WEJT (1)

TRGN 1

GRAB 1

WIDO 3 1

10 845

Olivaceous Vastalage (1)

NOWA (11)

RCTA (1)

AMRE (1)

VASE (1)

~~WIDO~~ (1)

IBWC (1)

BANA (11)

11 858

MAWA (1)

GRKI (1)

21 Jan

partly overcast 50% light down
no wind gallery forest
Luanan River / ~~South~~ North

1 715

AMRE (1)

GBSP (1)

LEFE (1)

BRAT (1)

DABI (1)

Catbird (1)

RTAT (11)

KEWA (1)

2 728

RTAT (1)

LEFL (1)

GCWA (1)

NODR (1)

AMRE AAB (1)

TRGN (1)

VETR (1)

BHTR (1)

SBPI 1

OVEN (1)
 GITDO (1)
 OBSP (1)
 LTHE (1)
 SUTA (1)

3/743

~~NOVA~~ (1)

~~KEWA~~ (1)

~~KEWA~~ (1)

LTHE (1)

NOVA (1)

INBU (1)

RUCR (1)

BCWO (1)

4/756

TRGN (1) BGGN

DHSA (1)

GREL (1)

LEFL (1)

YOFL (1)

AMRE (1)

GFWO (2)

MAWA (1)

Fully overcast

5/812

SBWW (1)

BAAS (1)

TRGN (1)

MEBB (1)

YOFL (1)

~~RTTU~~

WBEM (1)

GFWO (1)

NODR (1)

TRIC (1)

LIWO (1)

BGBB (1)

Cathira (1)

6 815

AMRE (1)

Cathira (1)

SBPI (1)

CSWA (1)

MAWA (1)

TRGN (1)

SBWW (1)

WBWW (1)

MEBB (1)

WBEM (1)

VBCH (1)

LITI 4

7/838

GHDO 1

DABI (1)

MEBB 1

GRTI 11

BHSA (1)

SBWW (1)

BISA (1)

BAWA (1)

PLXE (1)

SIBPI 1

CSWA (1)

JACUAR (1)

BAAS (1)

BWVA (1)

RTAT (1)

~~YUFL~~ YUFL (1)

~~Polionias~~

AMRE? (1)

8/900

GRTI 1

SUFL (1) 1

LTIF (1)

LEFL (1)

TRGN (1)

SBWW 1

WEWA (1)

BIGW ♀ (1)

9/913

WDSB (11)

WBWW (1)

KEWA (1)

RTAT (11)

WCPA ~~1~~ 1

SBLWW (1) ~~1~~

WIWA (1)

10/925

SDPI 1

- VBFL (1)

MAWA ♀ (1)

YUFL (1)

BAWA ♂ (1)

AMRE ♀ (11)

YEWA (1)

- CSWA (1)

23 Jan 97 100% clouds
Rio — Nva Palestina South from Rd.
Nowind Gallery forest

1/643

AMRE ♂ (11)
LITE (1)
WIWA (11)
No Catbird (11)
Yell thr Euphonia (111)
~~add cattle~~ (1)
CCRO (1)
TRKI (1)
MEBB (1)

2/657

WIWA (1)
AMRE (1) 1 ♂ Ad
No Catbird (1)
LITE (1)
~~BHWA~~ (1)
BANA (1)
RTAT (11)

3/711

NOUR 3 ♂ (1111)
MAGN ♀ (1)
RTAT (11)
CATB: d (1)
TEWA (1)
~~HOWR~~ SBWW (1)

*4/729

Ani (111)
SBWW (1)
RTAT (11)
WIWA (1)
RT HBL (1)
KEWA (1)
~~BEGR~~
BGTA (11)
TRKI (1)

5^N/743

AMRE (1)
SBWW (1)
GHYE (11) Geothlypis
COYE (1)
LEFL (11)

NORA (1)
BDGB (1)
WVEN (11)
~~Toucan~~ (1) Toucan (1)
BAWA (1)
BTGBR (1)
BGGN (11)
~~AAFI~~ (1)
BBFL (1) ??
SWTDO (1)

6 / 758
TRSW (1)
VWTA (111)
COYL (1)
AMRE (1)
LIWA (1)
~~KEWA~~ (1)
~~JEWA~~ (1)
LEFL (1)
GRYE (11)
MANA (1)
GRHA (1)

* 7 / 811
MAWA ♂ (1)
YBCIT (1)
LEPL (1)
AMRE ♀ (1)

* 8 / 824
TRKI (1)
MAWA (1)
WCPA (1)
AMPLE (1)

* 9 / 839
BGTA (11)
TRSW (1)
NOWA (1)
GRHA (1)
YEWA ♂ (1)
MAWA (1)
YBFL (1)
LEFL (11)
DUFL (1)
NO Cathod (1)

* 10/

852

SBWW (11)
WCSL (111)
TRSW (11)
YKWA ♂ (11)
AMRE ♂ (11)
RBCB (1)
MAWA (11)
LEFL (1)
BAAN ♂ (1)

11/ 912

NOWA (1) CIBL (1)
LEFL (1)
AMRE (1)
VIEL (1)
BGBB (1)
TRIL (1)
SBWW (11)
BANA (1)
UBWW (1)
YOFL (1)
SUTA (1)
LIWO (1)
BRAT (1)
MAGWA (1) ♂

28 Jan

Clear skies no wind

Jerico Riolarroyo north heavy east

Gallego Forest 5

*

1/ 652

benic potrero

YKWA 11 (Ad ♂ both)
NOWA 1
AMRE 1 ♀
COYE 1
whistle cuckoo cuckoo cuckoo 1 YBCA
MAWA 1
YIBFL 1

2/ 714

Muskevy duck 1
MAWA (1)
VLEWA (1)
CSWA (1)
COYE (1)
WIWA (1) (aggressive int)
YBCH (1)
YBCA (1)
RTBL (1) (2, ♂)
RTAT (1)
AMRE (1)
UTDO (1)

BGTA 11

3/730

MAWA	1111	Agave
AMRE	11	Ad 3
YLEWA	11	
YBFL	1	
WLEWA	1	
DUEL	1	
OBSP	1	
NOWA	11	
HOWA	1	
WIWA	1	

decreasing notes BAAS

#3

Center	No DBIT	12, 14, 20
	3/0/0/0	5, 10, 12, 20
	Potrero	
	other side of river	
	other side of river	
	Potrero	
	Potrero	
	0/0/0/1	4/8/12
	0/0/0/0	10/13

#2

Other side of R Potrero

Potrero

0/0/0/0	7
0/0/0/1	6, 7, 10
2/0/0/1	8, 9, 10
3/2/0/0	0.5, 4, 5
3/0/0/0	3, 5, 7, 10
0/0/0/0	8, 16

#2

Other side
"

2/1/0/2	9, 12, 13, 18
8/0/0/0	5, 12, 18
0/0/0/0	1, 4, 5, 9, 12
10/0/0/1	0.5, 1, 2, 3, 7, 10, 11, 20
1/0/0/0	1, 2, 5, 7
Potrero	
0/0/0/1	1, 7, 9

0830

SUTA	1
COYE	11
WIWA	1
AMRE	1
RUCR	1

MAWA	1	
BTSA	1	
LITI		1
GRSA	1	
YBCA	11	59
BAAS		
RTHU	11	
BBGR	1	
LEFL	1	

/841

BBGR	11
NOWA	1
RTHU	1
WTDO	1
RBGR	11

/910 don't know

MeBB	11
BLVW	1
WIWA	1
GRCA	11
MAWA	1
COYLE	1
VBEL	1
LEFL	1
AMRE	2 1

/934

AMRE	1	
NOOR	1	Ado
YUWA	1	Ado
LEFL	1	

/955

AMRE	1
RTAT	1
GRKI	1
WIWA	1
SBWW	1
MAWA	1

29 Jan 93

Damasco Secant Arroyo
South, heading west, clear
Nowhere Galley Forest.

* #10
1/647

AMRE	1
RTAT	1
CSWA	1
WIWA	11
LEFL	1
MAWA	Ado 1

#11

2/706

MAWA 1 Ad♂

~~MAWA~~ BAAN 1 ♂

YUWA 1

AMRE 1 Ad♂

RITH 2

#12

3/728

MAWA 1

BISA 2

SRTA 11

GRCA 2

AMRE 11

WSE 1

WDW 1

Acahual 2-3m 50%

Potrero

0010 2510

10001 1/2 2 7 15

0000 —

2110 1/2 1 2 3 7

8210 1/2 3 5 12

#13

4/801

AMRE 1

WIWA 1

WSE 1

MAWA 1

Acahual 3m

Acahual 3m

Potrero

6010 1/2 5 7 8, 12

7200 5, 8, 12

60%

6000 3, 5, 6, 20

4000 1, 4, 5

5211 1/2, 4, 5, 7, 10, 11, 15

#14

5/826

AMRE ♀ 11

MAWA 1

DUAN 1

BHSA 1

95% 1010

4100

8201

4301

9010

9011

11002

13002

Potrero

9, 10, 5, 11, 12, 18, 24

1, 6, 9, 10

1/2, 13, 17

1/2, 5, 7, 10, 11, 15

3, 10, 11, 12,

4, 9, 12

8, 10, 11

5, 10, 18

#15
 2, * 6/9/0
 LEFL 1
 NOWA 1
 WILWA 1
~~SEFL~~
 GEWO 1
 NEBB 2
 OROR 2
 3 SOFL 4
 CAEG 2

5000 ————— 50%
 2401 4, 8, 9, 11
 3103 7, 8, 10
 Potrero
 Potrero
 Potrero
 Potrero
 2002 1, 5, 6, 7
 Potrero

#11
 2 / other side of river (similar) 80%
 " (potrero)
 5000 3
 5101 1/2, 2, 5, 7, 9
 5012 1/2, 8, 11, 14
 10010 1/2, 4, 7
 7000 1/2, ———
 5002 6, 8, 12, 17
 1 Potrero

1 / #10 Potrero 75%
 Potrero
 8001 4, 8, 9
 9012 2, 8, 9, 10
 7101 2, 5, 10, 11, 12, 14
 Potrero
 11002 1/2, 3, 5, 6, 8, 10, 14, 18, 20
 10000 1/2, 2, 5, 6, 5, 10, 15, 18
 4001 1/2, 4, 8

24/1/92

Satellite Ground Truth

Santo Domingo Road between

Jericó and Danasco ~~at~~

From Jog in road 1.4

miles From Danasco ^{School at}

220 m (South)

north west side of road

GT1 (Map D45) (Imagery = approx)

Road bordered by dense herbaceous growth 5m wide. Field is second growth - herb and shrub base to about 3m with scattered taller trees about 10m tall. Extends to base of hills where there are cleared croplands and to north until ~~next~~ pastures which abutt the next arroyo.

Photo Roll #1 Frames 6-8

GT2 (Map D45, Imagery = Approx.)

From that arroyo 300 m further north along road on west side.

Herbaceous border on road side 4-5m with

some trees 8m tall. Low herbaceous

vegetation (some grazing) about 1/2 tall than

about 20m in taller (1-1.5m) undergrowth

with dense (2-3m apart) short trees

up to 8m tall covering 2-3 ha.

Roll #1

Frames 9-11

12 other
side

Ground Truth

GT3 (Map D45) (Imagery = Approx)

Cristóbal Colón

Road Between Danasco and ~~Santo Domingo~~

0.6 miles North of Danasco looking

west 2m^{tall} herbaceous border 4m wide

along road, grassy understorey 1/2 m tall

some shrubs, moderate density of trees

(3-4m apart), averaging about 4m tall

some up to 8m. Clump of trees (1/2 ha)

immediately to south, small rise immediately

to north. Hills behind are mostly

barren. Across road to east vegetation

similar. Small pond bordering road.

Roll #1 Frames 13-15 opposite 16

30 Jan 93

± Javier

Cloudy No wind, Gully Forest
Arroyo Cristóbal Colón 2 nd ~~nd~~
South of " heading west of road

#9

1/646

Am RE 1 Ad ♂

LIWO 1

x RCMA 1

x SUTA 1

x RTTU 1

x BGTA 1

#10

2/700

VTEU 2

BTSA 111

BGGN 1

VITR 111

WBWW 1

BHSA 1111

GFWO 1

x GMTA 1 high trill

DUAN 1

SHWO 1

x Slaty headed Tody Flycatcher 1 deeper Wist

CSWA 1

RTAT 1

HOWA 1

LIWO 1

#11 3/720

BTAN 1

BB Grassquit 1111

NOWA 1

MAWA 1

LAWO 1

VOFL 1

LEFL 11

LIWO 1

BGGN 1

AMRE 1

#12

4/734

AMRE 1

#13

5/747

BB Grassquit 1

MAWA Ad ♂ 1

high pitdor tseep

#44

6/759

	GRKI	1	
	BBGR	♀	1
*	YTEU	11	
	NOOR	1	
	RTAT	1	
	TRPE	1	hi peee
	SPWW	1	
	WTDU	1	
*	PTNU	1	
	WCSE	11	
	VASE	1	

7/812

#15	YTEU	11	
	AMRE	1	♀
	PATY	11	
	ROGR	11	
	GRCA	1	
	YDPL	1	
	GFWO	1	
	LEFL	11	
	WIWA	1	
	WCSE	11	
	WTDU Great Kiskadee	1	
	LEUI	1	
	YKWA	1	

COYE

1

YBCH

1

8/827

#16	NOOR	111	
	MAWA	11	(1 Ad ♂)
	GCT	1	
	YKWA	1	

#17

9/802

WTDU	11
AMRE	1
HOWA	1

#17
9/

10 10 1	3, 9, 10, 12	
Potrero		65%

Potrero

10 002	5, 55, 6, 7, 8, 12
7, 2, 02	1/2, 5, 10, 11, 18
Potrero	

#16

8/

11, 10 1	2, 3, 8, 10	70%
9, 000	2, 2.5, 3, 4, 8, 9	
Potrero		
Potrero		

10000 2, 2.5
Potrero

#15
7/ 4200 2, 2.5, 3, 3.5, 4 50%
1200 1, 3.5, 4
Potrero
Acahual 3m
Potrero
Potrero

#14
6/ 18, 2, 0, 1 35, 4, 20.
30% 3011 7
Potrero

#13
5/ 7001 9, 9.5
25% 5000 2
Potrero
Acahual 2-3m
"
"
"

4/ #12 8001 1/2, 2, 3, 3.5, 5, 8.
35% 13100 1/2, 1.5, 2, 3, 4
10000 1/2, 3, 4, 5

#11
3/ 5001 1/2, 1, 2, 8, 10, 11, 12
8000 1/2, 1, 2, 3
20% Potrero

#10
2/ 11200 4, 5, 12
95% 10000 1/2, 3, 5, 6, 7
13411 1/2, 1, 8, 8.5, 9, 10, 15
5, 002 1/2, 3, 4, 5, 6, 7, 12,

#9
1/ 10110 5
9210 1/2, 3, 8.
25000. 3, 4, 7, 12
6, 112 1, 2, 5, 7, 9, 11

31 Jan 93 Overcast Nowind
Lacanja Sintal Rio west towards
Cintalapa

#13
* 1/659 NOWA 1
~~GRAN~~ BBGR 1
SAWA 11
SOEL 1
GRRL 1

MAWA ♀ 1
 BBGN 1
 AMRE ♀ 1
 RBGR ♂ 11
 YOPF 1
 YTHI 1
 RTHH 1

2/7/13 #14

Palmy Tyrannulet
 Like ten 2
 AMRE 1
 YLWA 1
 DUFL 1
 MAWA 1

(clean stripe white Bar across head)

#15

3/7/26 Sun coming out
 MAWA Ad ♂ 1
 RTHH 1
 GRHA 1
 AMRE Ad ♂ 1
 SUTA 1
 NOOR ♀ 1
 WBWW 11

* #16
 4/7/40

MA TI 1
 MAWA ♀ 1 1 ♂
 SOFL 1
 BRJA 1
 AMRE Ad ♂ 1

#17
 5/7/58

BBGN 1
 MAWA 1
 LIHL 1
 BANA 11
 GRCA 1
 SHWO 1
 WIWA 1
 AMRE Ad ♂ 1 1?
 NOWA 11
 BBGR 1
 SOFL 1
 SDPI 1
 Buff th Buff throated Folio Gleaner 1

Overcast

#18 833

6/ BBGR 11
BBGW 1
SDWW 1
AMRE 11
RTAT 111
WBWW 1
HOWA 1
M. ORO Pander 11
RLPA 11

#19

7/ 850

MAWA 1
SOFL 1
BHSA 111
RLPA 11

* #20

8/ 907 SRTA 11
YBCH 11
WCSE 1
WTWA 11
COYE 1
GRCA 11
MAWA 1
LEFL 1
BBGW 1

WBEM 1
Toucan # 1/2
AMRE 11
GFWD 1
YOFL 1
CCTA 1
BHSA 11
BAAN 1
RTAT 1
CBSP 1

* #21

9/ 920

BHSA 11
WTWA 1
MAWA 1
YBCH 1
LEFL 1
BBFL 1

Actual x 4 3-4 in high 25%
8000 1/2, 12, 15 2 in wide
1001 1/2, 7, 8, 10
7000 4, 5, 6
8100 1, 3, 3.5, 7, 14
6001 1, 3, 5, 7, 12

8/ Actual x2 1-2m 2m wide
 Actual x5 2-3m 20%
 5100 2, 3, 5, 7, 10
 20001 1, 2, 25, 27

7/ 6002 1, 12, 14, 17 100% 3m wide
 6101 5, 7, 8, 9, 10, 15, 22
 5003 1, 2.5, 6, 8, 10, 11, 12, 15
 6000 1, 5, 12, 15, 17
 5002 1/2, 1, 6, 10, 12, 15
 12100 1, 3.5, 6.5, 7.5, 12
 0002 1, 10, 11, 22, 27
 7100 1, 3, 7, 14
 7, 101 1/2, 1, 2, 8, 9, 10, 12, 15

6/ 3m wide 100%
 6001 1/2, 3, 4.5, 20, 25, 27
 6000 1/2, 5, 10, 23
 11, 101 16, 8, 8.5, 9, 15
 13001 1/2, 2, 4.5, 25
 5001 1/2, 1, 12, 12.5, 13, 14, 17
 13100 1, 6, 12, 18
 1, 1, 0, 0 10, 12, 15, 20
 9000 2, 5, 10, 12
 9000 3

5/ 10001 3, 4, 5, 7 60%
 8100 2, 8 3m wide
 4110 3, 15
 Potrero x4
 1230 6, 9, 27
 83, 03 3, 3.5, 5, 7, 8

3/ Potrero x4 3m wide 25%
 0002 2, 2.5, 3, 4, 4.5, 5, 10
 8201 2, 3, 4.5, 5.5, 6, 7
 7001 1/2, 1, 10, 12, 15
 0001 1/2, 3.5, 5, 10
 6000 1, 3, 6, 7

4/ 2m wide 50%
 Potrero x6
 6000 1/2, 1, 3, 5
 8110 1, 1.5, 2, 6, 7
 7110 3, 5, 6.5, 9

2/ Potrero x4 25% 1.5m
 3000 6, 8, 9
 5000 1/2, 1, 2, 2.5, 3, 4.5
 10001 1, 3, 7.5, 6
 6000 2
 5001 2, 2.5, 5, 10

25% 4m

✓ 9002 1/2, 1, 2.5, 3, 5, 6
 5000 1/2, 1.5, 2, 2.5
 4001 6, 12
 2000 1/2, 3, 20
 10200 2.5, 15, 17
 Potrero x4

1/2/93 50% Clouds
 V0638 Nowind

BAAN 1
 OBSP 1
 LEFL 1
 BAWA 11
 CSWA 1
 MAWA 1
 NAWA 1
 AMRE 1 ♂
 YBEL 1
 WTD 1
 GRCA 1

2/651

WIWA 1
 YTOR 111
 NAWA 1
 YBCA 1

Toucan 1
 BGTA 1
 CCTA 1
 BGCN 1
 GHDO 1
 YTEU 1
 CSWA 1
 GRAN 1
 Jacamar 1
~~ATY~~
 BCTI 4

3/703

CHOR 1	BAAN 1
YBCA 1	BB
NOWA 1	RTHu 1
AMBE 1	RBGR 1 ♂
WTD 1	WIWA 1
BTSA 1	SHTO 1
CSWA 1	
IBWO 1	
BBGR 1	
BTGR 30 11 (right)	
BAWA 1	
YBCH 1	
SPWW 111	
Toucan 11	
LEFL 1	

4/0717

LEFL III
BGGN I
YTOR III
WVI I
GRAN I
MAWA 5 I
SBWW I
SRTA I

5/729

NAWA I
GRCA I
NOWA I
BGGN I
BTGR I
PBWO I
CSWA I

6/744

GRCA III
BTGR I
BGGN II
CSWA I
SBWW I
GRKI I
MAWA I

RTAT I
YBCH II
AMRE I
WIWA II
CRAN II
MEBB I
BAN II

7/802

BGGN I
SBWW II
WTD0 I
RTAT II
WIWA I
BTGR I
SNWO I
AMRE II AdG 1 ♀
DLWO I
GRCA I
CSWA II
LIHE I
GRAN I
GBWW I
DUAN I
LEFL I
MEBB 2

8/821
 AMRE 1 A10
 GHOO 1
 YBFL 1
 MAGNA 1
 LIHE 1
 CCTA 11

9/837
 BTFG 1
 WBWW 11
 TLMA 1 whistled --
 NOBTB 1
 YBFL 1

#2 Stream 1m Continuous Forest
 at least 5-10 ha 100%

14000 1/2, 2, 3.5, 10, 12, 15
 13100 1, 4.5, 7.9, 12
 12100 1, 2, 2.5, 3.4, 5, 7.9, 15
 7100 1/2, 5, 5.5, 6, 7, 14, 18

8/20/2011
 # 2021 4, 8, 9, 13
 3100 1, 5, 5.5, 6, 12, 25
 5300 6, 8, 9 clearing
 3, 5, 5.5, 6, 8 4

60% 2-3m wide
 40% recently cleared (w/ this week)

7/ 50% Arroyo 3m wide
 40% recently cleared
 #19 10% thick veg 2-3m tall

dead veg 15
 11,000 6, 8, 9
 9200 3, 5
 Acahuatl 2-3m

6/ 6000 2, 3, 4 thick vines
 #18 4001 10, 25
 5001 6, 7, 12, 15 2m wide
 2 cleared 60% Arroyo
 30% cleared
 10% Acahuatl

5/ 13100 5, 7 3m wide
 #17 2001 1, 8
 4 x Potrero 30%
 2000 1 2, 4, 5, 10, 13

#16
 4/ 2m wide 70%
 2x Potrero
 2x Acahual 4-5m
 13100 2.5, 5, 7.5
 4001 2.5, 6, 6.5

#15
 3/ 2m wide 55%
 5100 1, 24
 2 Potrero
 2 other side Forest
 9010 2.5, 3, 4.
 2010 4, 5, 6

#14
 2/ 3m wide 60%
 7000 1.5, 2, 7
 2 potrero
 2 other side Forest
 8300 2, 2.5, 3, 4, 4.5,

#13
 1/ 3.4m wide 50%
 5000 2, 3, 4, 4.5
 6010 2.5, 6
 2, potrero

2 other side Forest

Roll #1 ~~Frame 23-28~~
 Frames 23-27 taken of Arroyos
 first points and recently cut area

2/2/93 Nowind, No clouds but
 fairly heavy fog. Visibility 200m
 Colley Forest Rio Santo Domingo
 heading N.W. from town

*1/ 6:38

WILWA		1	
AMIRE	♂	11	♂ 1
MAGWA	♂	11	
SDWW		11	
BBFL		11	
YWTA		1	
VLWA	♂	1	
SOFL		11	
BGTA		1	
MRBB		1	
RBGR	♂	1	
YTVI		1	

1 BGGN 1
BTGR ♀ 1

Arroyo. still foggy

* 2/723

1/2 m wide

not Gully & pasture
both sides

LEFL 1
AMRA ♀ 11
MAWA ♂ 1

x

3/756

1/2 M

AMRA Ad ♂ 1 ♀ 1

BGGN 11

RTHU 11

YAWA ♀ 1

LEFL 1

WIDO 1

LEFL 1

* 4/757

GCYL 111

CAEG 11

LEFL 1

MAWA 1

5/820 Rio Santo Domingo

GBH Con 1

GRCA 1

SBWW 1

MEDB 111

LINE 1

* 6/835

LIHE 1

BGGN 1

RTHU 1

LEFL 1

YBCH 1

GHVE 1

GRCA 11

WIVA 1

AMRA Ad ♂ 1

7/850

SBWW 1
 AMRE ♀ 1 In ♂ 1
 BHUU 111
 BGGN 1
 NOWA 1
 MAWA ♂ 1
 CAEG 1
~~RTAT~~ 1
 Wren ? 11 - " - "

8/907

NOWA 1
 RIKI 2
 MAWA ♂ 1
 WTD0 1
 BGTA 11
 NOUR Ad ♂ 111 (12)
 OROR 1
 BTGR ♂ 1
 AMRE ♀ 1

*

9/921

VBC/H 1
 AMRE Ad ♂ 1
 LEFL 1
 BAAN 1
 BGGN 1
 MAWA Tanager 2 X
 MEIB 11
 SRTA 111
 NOWA 11
 NOUR 2
 BGTA 11
 NIWA 1
 RTIH 1
 GRCA 1

00%

com

11000	1, 2, 2.5
9120	4, 5, 6, 7, 14
6000	12, 5, 5, 6, 7
Milpa (corn)	
Milpa (corn)	
Rio	
Other side (Simikro)	
6000	12, 1.5, 12
1110	1, 2, 3, 3.5, 15

8/ 8m Potrero x2 60%

6002 $\frac{1}{2}$, 5, 14

14010 $\frac{1}{2}$, 1, 3.5, 8, 14

18203 2, 3, 5, 5, 6, 7.8, 10

Rio

Other side (Jan 04)

9001 1, 7, 11, 17

9000, 1, 1.5, 2, 7

7/ 12m 80%

11000 $\frac{1}{2}$, 1.5, 2.5, 4

28000 2, 2.5, 3, 3.5

5211 $\frac{1}{2}$, 2, 6, 7.5

2 Potrero

1 Rio

1 other side veg up to 15m

14000 $\frac{1}{2}$, 1.5, 7, 3, 9

2000 $\frac{1}{2}$, 2.5, 3.5, 7

6/ 8100 $\frac{1}{2}$, 5, 5.5, 6.5

11002 1, 7, 8, 9, 12, 27

Potrero x2

Rio

Other side 15m veg

4000 1, 2.5, 12

5100 1, 6, 7, 11, 15

8003 $\frac{1}{2}$, 1.5, 4, 8, 24

dense v. lvs

15m wide 60%

5/ 7000, $\frac{1}{2}$, 2, 4, 7, 8

13000, 2, 4, 5, 7

6200 4, 5, 8

15m wide 7, 100 5, 6.5, 8

40% 12000 5, 6, 7

Rio

Other side

acahual

2m

2 chirp

4/ ~~6100 $\frac{1}{2}$, 3, 3.5~~

5m marshy

Acahual

sparse up to 4m 150%

3/ Surrounded by sparse Acahual / 34m

x 7

20%

0102 $\frac{1}{2}$ 5, 6, 7

3020 1, 2.5, 3, 4, 5, 6, 6.5, 7

1/2 in

2/ 8000 1/2, 2, 5, 5.5, 7, 9, 12
9000 1/2, 4, 5
10000 4, 4.5, 5
2010 1/2 5, 6, 7
8100 6, 6.5, 7
Sparse acacia 3-4m

70%

Nowind (Cen, no fog)
Rio S.D. 2km NW along road to
La Arena 3/2/93

Y653 BBGR 1
GRCA 1
AMRE ♂ 11
AMKI 1
RTILH 11
NOOR 1
NOWA 1
IBW 1
MAWA ♂ 11
SOFL 1
GBSP 11
YBCH 1
WEUI 1
COYLE 1
MEIBB 1

BANA 1
BGN 1
YBFL 1
HOWA 1
BAAS 1
VTILH 1
GTGR 2

2/7/8

VTOR 111
LHLE 1
GBSP 11
RTILH 1
LHLE 1
NOWA 1
GRSA 11
WCE 1
COLE 1
MAWA 11
SBWW 11
NOIR ♀ 1
MEBB 1
WISA 1
GRCA 1
OROR ♂ 1
LFL 1

3/733

MAWA ♀ 1 ♂ 1
 COYLE 1
 NOWA 1
~~RTTH~~
 LTHL 1
 MEBO 11
 NOOR 3 (28 IP)
 OROR ♂ 1
 GRCA 1
 LTHL 1
 RBGR 1
 AMRE 1

4/747

WDO 1
 PBWO 1
 MAWA 11
 SBIWW 1
 AMRE 11
 WSE 11
 GRCA 1
 NOWA 1
 LTHL 1
 SQCH 1
 WWA 1

5/818

GRCA 11
 MAWA 1
 SOFL 1
 Jacamar 1
 BRSA 1
 BAAN 1
 VOFL 1
 WIWA 1
 YBCH 1
 LEPL 11
 BGGN 1
 BBFL 1
 WDO 11
 MEBO 1
 YLWA 1
 YBCA 1

6/836

RTST 1
 GDSP 11
 GRSA 1
 MAWA ♂ 1
 RTTH 1
 YBCH 1
 COYLE 1
 NOWA 1

LEFL 1

NOOR 1

GRCA 1

~~GRCA~~

GREL 1

SIBW 1

YBCA 11 ♂ ♀

BAAN 1

SRTA 11

7/851

WICVA 1

AMKI 1

YBCA 11

NOOR 11

MABB 11

YOFL 1

AMRE 1

YTVI 1

MAWA ♂ 1

YOFL 1

LTHE 1

RTBE 1

20/1/0/0 42, 2.5, 4, 4.5, R, 25.

7 0 0 0 1/2, 1, 12, 16, 20

Yunide Scrubby Acahuatl 3-4 m
dense

8/9/11 MAWA 1
WCSL

1st of Roll #1 taken of Rio Santo Domingo
Ground Truth looking North
above these points

On road from North Harding
towards Ubaldo Garcia
50 paces (Map D45, not on charging)

GT 4 open grassland with scattered
trees 3-4 m tall ^{200m} (road takes a turn
left then down) small arroyo at
bottom of slope then into mix of acahuatl
variable height up slope to hills which
are forested

Roll #1 36 37

Roll #2 0 1

11/11 600m

GT 5 (Map D45, not on charging)
Potrero to North side

more dense acahual 2-3m tall
 running up to arroyo with
 some gallery forest. Hillside, dense
~~at~~ acahual at base, milpa
 mid slope at crest, forest
 of hill begins.

Roll #2 Frame 2-~~4~~

GT6 (Map D45, Not on Imagery)
 7+7+ | 11 | +20 800m
 (Map D45, Not on Imagery)

Rolling terrain, acahual sparse
 up to 5m tall down to lower
 area with dense scrub, cane
 grass, to Hillside with thick
 tall acahual, some milpa
 into forested Hillside

Roll #2 Frame 5-7

17+7 17+7 17+7
 50

3300 paces (2.75 km) from
 School yard to furthest point well
 NW along road

3/2/93 Ground Truthing
 From Ubilio Garcia to Arroyo Granizo
 and Santo Domingo. Distance measured
 From last building in Ubilio Garcia.

61.6 mi at Power line/House in town

GT7 (Map D45, Not on Imagery)
 62.6 mi powerline ~~cross~~ road for
 sound time, road going along ridge
 to East side, pasture with short
 grass (cane grass border on road
 3m wide). Sparse trees are
 10m apart 4-5m tall

Roll #2 11-13

(Map D45, Not on Imagery)

GT8 Short Grass borders road to ~~East~~ ^{NW}
~~East~~ downstream tall grasses potrero
 in front most density acahual 3m tall
 grazed

65.9 mile

Roll #1 14-17 18 ^{at L}
 500

~~66.5 to Arroyo~~
~~by the side of the San Juan River~~

Arrive Arroyo Grande 66.6 miles

4/2/93

Clear skies light fog/mist, no
 wind, Santo Domingo River upstream
 from State houses.

*

1/0643

BBFL	1
WIWA	1
MEBB	2
LEFL	1
NOWA	1
BGTA	111
MAWA	11
AMRE	2 1
BGGN	1
BBGR	1
BAWA	1

*2/728 Arroyo 2m wide

GRCA	1
MEBB	1
AMRE	2 11
LEVI	1
NOWA	1
BTST	1
COYE	1
WIWA	11
GRAS	1
BAAN	11
WTDO	111
LEFL	1
BGGN	1
SPWW	111
NOOR	111
YTVI	1
CSWA	1

75%

5200	1/2, 1, 2, 3, 10, 12 (Vines)
Actual	1-2m
6000	1/2, 1, 3, 4, 5
7000	1/2, 3, 9
13010	1, 2, 6, 7, 20
21001	1.5, 2, 3, 5, 9, 18
2210	6, 7, 9, 12, 15, 18
18201	1, 10, 12, 15

3100 2, 5, 7, 9, 10

* 3/814 Rio SID

VBCA 1

BIGR 81

WIWA 1

* 4/829 Rio SID

CSWA 1

TRWA 1

NOWA 1

MAWA 1

SBWA 2

8m wide 19000 1/2, 7, 18
100% 8000 1/2, 1, 2.5, 5, 12
7000 1, 15, 16, 20
4000 1/2, 3.5, 4.5, 7, 12, 14
7100 1/2, 2.5, 3, 4, 7, 21, 25
12100 5, 5.5, 6, 25
18000 1/2, 2.5, 4, 5, 6
Rio
Other side

8m wide

100%

3/ 7000 1/2, 3, 10
4011 1/2, 2, 2.5, 8, 10, 15, 17
5000 1, 5, 12, 16
12000 1, 2, 4, 8, 10, 13
0002 10, 17
Other side

"
11, 3, 00 1/2, 6
4200 1/2, 1.5, 2, 3.5, 6

1/ 5110 4, 6 60%
1010 1, 4, 5, 5.5 12m wide
4332 1/2, 5, 7, 7.5, 8, 10
Rio
Other side
Patreco
Patreco
13, 120/1/2, 2, 7, 7.5
5001/ 1/2, 1, 8, 9, 10

5/934

BGGW

Nawa

15m wide 70%

2001 $\frac{1}{2}$, 3, 5, 11, 14

7001 2, 2.5, 7.5, 12, 13

5002 $\frac{1}{2}$, 6, 6.5, 7

Potrero

Potrero

Pio

Other side (15-18m)

4002 68

Potrero

GT9 (Map D45, not on Imagery)

looking to NW from St. Do-
to El Limon, pasture with
scattered tree to 4m backing onto
Fragrant are 8m height close to
Hills (Forest on)

Roll #2 frames 19, 20
21, 22 other side

70.0-71.5

800m from when road turns
at bottom of hill

1.5 miles ^{North} From Sival ~~Rd~~ Road

Frame #23 Road Conditions

73.9 = 2.4 mile Sival Rd.

(Map D55 Facing East
not on Imagery) GT10 Sival Rd - Limonar

3m cane grass, acakual (2300m
deep) 2-3m tall moderate density
Power lines running through Parallel
to Road Forest fragments on other
side of acakual further to south
(150m) pasture? Behind me is forest

Roll #2, 24-26

73.1 mi Limonar Chon
72.8 Leve

771

(map D55 not on Imagery)

GT 11 Likiep - Citalapa

Looking East

Stand of tall trees in a line
perpendicular to road 200m N
of position. Dense acacia
after road border of short grass
3m wide. Acacia are 5m
tall, power lines running
through area. West side
similar but higher 8-10m tall

Roll # 2 27-28

29 opp

77.5 road enters

Forest

77.8 leaves, & s
power line

78.5 enter Citalapa

2.1 km
2.2

GT 12 (map D55
Not on Imagery)

Citalapa - N. Palestine Rd

Triangle 6m tall acacia
at tip. (1 mile) less 0.2 m
at base

Frame 30, 31 N. Palestine Arroyo
Agua Azul

32, 33 other arroyo

GT 13 (Not on Map, on Imagery)

1 mile along N va Palestine Rd
heading east - Temporary marsh border
(Facing South) 10m, Power line,
then scrubby second growth with
mod density tall dead trees. Vegetation
generally 4-6 m One patch of trees
500m away. That extends in a
line SW-NE

Roll # 2 34-36

37 opposite side

9/2/93

Ground Truthing From
San Javier Intersection

88.1 Mi

93-5 N.O.'s de Agua

936 Road bore 284° (Map Dsb, Imagery)
GT14 100 m past (~~14~~) N.O.'s de Agua
going north facing 10°
grassy vegetation on road side (1 m tall)
extends 10 m to shrubby second
growth 3 m tall with few emergent
trees up to 6 m tall. covers about
(50 x 50 m) then upslope is pattern
of small forest fragments 10-15 m
tall with patches of corn field

Roll #3 Frames 29-31
32 Other

96.1 Mi

GT15 Road bearing 282° (Map Dsb, Imagery)
Just North past forested clump
(ideal that pale green along edges
may be a reflection of vines that
cover edge of forest??)

dense herbaceous and woody vegetation
about 2 m tall dominates with a line
of trees 15-18 m tall parallel to
road, ridge of hill has taller vegetation
than surrounding scrub (8-10 m)
(Facing 240°)

Roll #3 Frame 33-35
Other 36

96.9 N.O. Palestina Road

100.4 Road 291° View 140°
GT16 (Map Dsb, Imagery)
Overgrown cropland, dense herbaceous
woody vegetation 2-3 m tall, from
road side to crest of hills which have
trees 10-15 m tall to east along road
is small hill with 15-18 m veg as well
to west

Roll #4 Frames 0-2

GT 17 101.8 (Map D56 = January)

shows as clearing on
unclassified and ~~some~~ orange
on classified

Road 356°, Facing 263°

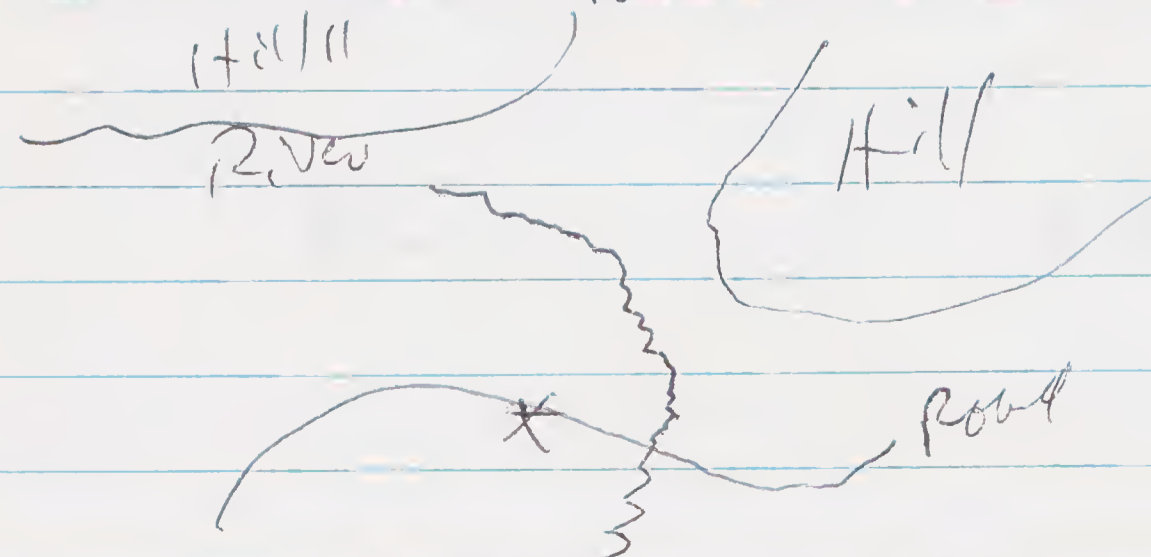
Thick undergrowth woody
vegetation 3-4m, overstory
dominated by Cecropia (10-12m)
with some other species all
along valley

Roll #4 Frames 3-5

GT 18 103.4 mil (Map D56 - January)

Shows pale green on classified
data at nearly 90° turn in road
in valley between 2 forested hills
Road (349° before turn) Facing 62°

Border of road woody vegetation
2-3 m tall goes down into valley
with small river 3-4m wide



Vegetation throughout 10-15m
tall. Opposite side shrubby
4-6m with some emergent trees
10-15m

Roll #4

6, 89

7 other side

102.0 Diego Velasco Swarc

5-6 pts for gallery?

GT 19 107.2 mil Just across

Map D56
January

UTM 68 (?) Road 300°

Facing 224°

herbaceous/woody shrubs dominant
with density of trees (8-10m
tall varying. Little in the way
of landmarks to get exact position
but typical of this entire area
(2-3 km of road)

Roll #4

10-12

at Basilja GT 19.1
(Imagery)

From 107.7 to 109.9
(Nra Franco Leon) not marked
on top/vegetation is much the
same with a dense understory of herbs
and up to 15m tall trees.
dominated by cecropia, hills to
west throughout seems to be covered
with forest.

Few anegras throughout

Start 110.4 km
(Map D46 Imagery)

GT20 111.4 mi Road 296
Heading North just past Basilja
and Nra Franco Leon, large pasture
area on border with second growth
larger patches of forest to north.
Area of second growth dense
vegetation 6-8 m tall with
a few emergent trees

Roll #4 13-15

114.0 Aisosa

(Imagery) map D45
not shown

GT21 114.2 Huisoja 0.2 miles
behind. Typical of this area dense
secondary vegetation 6-8 m tall
(just past an opening where pool forms
along creek that runs down from
hills to west - Shows on claim for
photo) Some emergent trees 12-15 m
tall.

Roll #4 16-18

(Imagery) map D45
not shown
GT22 117.4 Just passed through
about 1 mile of pasture on both sides
with heavy grazing. Small patch of forest
thinned out (about 1/2 ha, tallest 18-20m)
with understory of herbaceous and woody growth
from 3-4 m outside rim to 8-10 m in centre.
Some grazing in area. Along road
further NW area is more open with
grasses and low density of some trees (up
to 20m tall).

Roll #4 19-20

10/2/93

Clean shot, Mountain,
Nth E sparsing.
Galley Forests Henling
upstream

* #11

1/627 YBCH 1
GRKI 1
WIWA 1
SBWW 2
~~WCS~~ 1
OROR 11
NOOR 1111
YLEW 1
NOWA 1

* #12

2/645

LEFL 1
LISE 1
GCYE 1
NOWA 1
GRCA 1

10/2/93

Just upstream from Hill and loggers

*

31 701

#13

CAEG 1
SDFL 11
GRCA 11
MEBB 1
WCSF 2
COYLE 1
LEFL 1

*

4/717

#14

PUGR 1
SUTA ♂ 1
GRCA 1
LEFL 1
Ahi 1
BBFL 111
COVE 1
WEVI 1

*

5/745

#15

WCSF 2
SBWW 2
Aratinga > 111
YLEW 2 1
MAWA 1
WILE 1

BGTA 1
AMRE Ad ♂ 1

* #15
6/809 Benice Milpa

GRCA 1
BAWA ♀ 1
MAWA 1
GR Kiskadee 1

nasal when when when slight decant.

* #17
7/836 Sweet after house

TR Mock 1
PATY 1
Gray Heronday Tiger ? 1 Thrush like Manakin
WTDO 1
SD FL 1
TLWA 1
BRAT 1
AMRE 1
GTGR 1

10/2/43

*
8/850

#8 GRCA 1
LEFL 1
SUTA 11
WCSE 1
WIWA 1
BTGR 1
DAWA ♂ 1

*
9/905

#19 GRCA 1
HOWR 1
VBCH 11
BGBN 1
AMRE Jan ♂ 1
VASE 11
RUGR 17
MAWA 1
GRAN 1

*
10/920

#20 BAAN 1
BRST 1
SBWN 1
GRCA 11
WTDO 1
AMRE 2nd ♂ 1 1

10/2/93

NOWA 1
GRKI 1
BBFL 1
BCTI Tyra 1

11/ 940

#21 AMRE 1
MAWA 1
BAWA 1
NINA 1
BHTR 11
NOWA 1
WSE

River 8m wide 50%
16210 1/2, 3, 3.5, 4, 8, 9

Other side (same reg)

Potrero

Potrero

Potrero

12000 1/2, 1, 1.5, 2, 2.5, 4
13000 1/2, 2, 2.5, 3, 3.5, 4, 5
16000 1, 2, 2.5, 3, 3.5, 6
4210 1/2, 2, 4, 5

10/ River 10m 75%

10205 2, 4, 4.5, 10, 12
13000 1/2, 4, 6, 8, 15
Rio

Same thing other side

Potrero

Potrero

9000 1 1/2, 6, 7

10001 1, 3, 6, 7, 10, 11

12000 1, 4, 4.5, 5, 6, 7

a/ 8m wide 40%

5200 1/2, 1, 4, 5

6002 4, 5, 6, 8

Other side similar

"

Potrero

Potrero

8001 1/2, 1, 7

5100 1/2, 1, 1 1/2, 2, 7, 10

7002 1/2, 1, 2, 2.5, 4, 7, 9

10m wide 60%

8/ 12010 $\frac{1}{2}$, 2, 5, 6, 6, 7, 9, 10
 5000 $\frac{1}{2}$, 1, 2, 4, 4.5, 5, 10
 4000 $\frac{1}{2}$, 2, 2.5, 4, 6
 Rio
 other side (same)
 Putrero
 Putrero
 7000 $\frac{1}{2}$, 1, 2, 2.5, 4, 4.5
 4,010 $\frac{1}{2}$, 2, 4, 8

7/ 15m wide 50%

8100 $\frac{1}{2}$, 2, 5, 6, 8
 9000 $\frac{1}{2}$, 2, 2.5, 4
 4000, $\frac{1}{2}$, 1, 1.5, 2.5
 Rio
 other side (6-8m)
 Putrero
 Putrero
 7000 $\frac{1}{2}$, 1, 2, 2.5,
 4000, $\frac{1}{2}$, 1, 3

6/ 8m wide 10% Gullery
 40% Milpa (old)
 other side 50% Actual 6-8m

Rio A
 Actual
 Milpa
 Milpa
 6100 $\frac{1}{2}$, 1, 7
 12000 $\frac{1}{2}$, 6
 11000 $\frac{1}{2}$, 10, 20
 3000 $\frac{1}{2}$, 8, 16
 2000, $\frac{1}{2}$, 1, 1.5, 2.5, 4, 4.5, 5

5 8m 40% Putrero 20% actual
 100% Actual

9100 $\frac{1}{2}$, 1.5, 2.5, 4, 4.5, 5
 7000 $\frac{1}{2}$, 1, 2, 2.5, 3, 4, 4.5, 5
 4304 2, 4, 4.5, 6, 7, 8
 Actual 4-6m
 Putrero
 Putrero
 3000 $\frac{1}{2}$, 1, 1.5, 2, 2.5, 4
 2010 $\frac{1}{2}$, 2, 3, 3.5, 5, 8

10/2/93

4/ 10m across 40%
 7001 2.5, 10, 11, 22
 Rio
 Potrero
 Potrero
 Potrero
 5000 $\frac{1}{2}$, 2, 3, 5
 4, 1, 11, $\frac{1}{2}$, 7, 9, 10, 11
 3000, 1, 2, 8
 1010 1, 3.5, 4, 5, 6

3/ 10m 40%
 4200 $\frac{1}{2}$, 2, 4, 5
 10,001 $\frac{1}{2}$, 1.5, 8
 Rio
 other side (Potrero)
 Potrero
 Potrero
 4000 $\frac{1}{2}$, 2
 8000 $\frac{1}{2}$, 1.5, 3

2/ River 15m wide 40%
 10000 ~~10~~ 1, 1.5, 2, 3
 12000 $\frac{1}{2}$, 1, 3
 4000 $\frac{1}{2}$, 1, 2.5
 Rio
 Other side (Potrero)
 Potrero
 "
 12000 1, 4
 1300 1, 2.5, 7

12m wide
 ✓ 5001 $\frac{1}{2}$, 1.5, 2, 3.5, 4
 Potrero
 "
 6100 1, 2.5, 5
 7110 1, 3, 6, 7
 7110 $\frac{1}{2}$, 1, 2, 2.5, 3, 4
 Rio
 other side Acahual 2-3m tall
 0002 6, 7, 10, 12

10/2/93

Roll #4 Fr # 2122

N. Espavaya Rd

12 yrs after deforestation

125.5 from NE Rd. ^{map D45}
GT23 ~~Imagery~~

126.2 - 0.6 Passing through town Nua-Ojo de Agua on NW side of road moderate to high density vegetation 8-10m tall with scattered houses throughout, some paths leading away from road (100m?) vegetation north of town along road pasture with scattered trees (Ficus mostly)

GT24

128.0

Location based on
classified imagery
may be slightly
east

Passed Heradura pastures (Road 290°) on North side

3m border on road 3m tall shrubs to 8-10m tall trees. Vegetation is thick with Epilobium vines, fan palm, Cecropia reaching 6-8m extent seems large can't see any indication that it gets even

Other side of road is a milpa, 100

as to north is a small separate hill abutting the road but separate from the main range

Roll #4 (rows 23-24

25 other side

Ends ~~22.1~~ 22.1

open to shorter 4-6m along road then open 200m long 7m deep, behind is same type of habitat

GT25 129.8 (Imagery) ^{map D45}
Road 296° upstream (Palenque)
Side of Chocdia opening 80°
From E + W

Pasture with broad scattering of mostly dead trees (10-15m apart, 18-20m high) get thicker (mostly palms with 4-6m understory). Forest, road bordered by pasture 80m wide, is 12-15m high at this end, very dense vegetation no distinct lower or upper storey

Roll #4 Fr 26-28

130.3 Mi Circular Swamp starts

GT26 131.7 mi ^{No opening 120°} Road 295°
Broad area stretching across the
valley, widely scattered trees
Road bordered by pond, band on
sound - likely Swampy through
area, frog calling
Other side of road is running up
against the forested hillside.
Larger more dense stand of trees
on bearing 320°

Roll H4 29-31

at Nueva Canán / Once de Julio

~~GT24~~ 133.3 mi
right stop

11/2/93

Light wind
Slightly overcast
45%

Sun part
Nueva Canán / 11 de Julio

1/655

AMRE	1
MEBO	11
NOOR	Ad ♂ 1
Parague	1

21 707

SOFI	1
BAAN	1
MAWA	♂ 1
RTHU	1
AMRE	♀ 1
YBCA	2
OROR	1
GTGR	1

Clouding over
completely

3/ 719

AMRE	Ad ♂ 1
MAWA	♀ ♂ 1
NOWA	1
INBU	1
RTHU	11
SOFI	1
YBEL	11
COYLE	1
BTGR	1

11/2/93

YTOR 11
TRKI 1

4/733

ALYRE 4d5 1

GRCA 11

YBCH 1

RTHU 1

MAWA 1

SBWW 1

BTGR 1

BDGB 1

VEWA 3 1

5/749

Scrubs

RTHU 11

LEFL 11

YTEU 1

GRCA 1

WOCR 1

11/2/93

6/805

KEWA 1

RTHU 1

LEFL 1

MAWA 1

7/837

RTHU 2 + 1

LEFL 1

KEWA 1

WTDU 1

WCMA 1

3-4/m

40% Arroyo

60% Acahuatl

6000

5, 5 1/2, 6 1/2

Acahuatl

1-2 m

Acahuatl

1-2 m

4100

1/2, 2, 2, 2 1/2, 3, 4 1/2, 5, 6 1/2

9200

1/2, 1, 3, 4, 6

6 3-4m 11/2/93
 60% 40% acakul
 3020 1/2, 2, 6, 7, 8 1/2, 9,
 other side same
 " " " "
 Acakul 1-2 m
 " " " "
 2100 1/2, 1, 1 1/2, 2, 6, 8
 5000 1/2, 1, 1 1/2, 3, 4, 5.

5/ Rio ? 60% Acakul
 40% Ameyo
~~1400 1, 2, 2 1/2, 3 1/2~~
 Acakul 2-3 m
 Rio with some 5-10 trees
 8-10m 3 or 20m tall

4/ Rio ?
 Acakul 1-2 m
 along arroyo 6-8m (few)

3/ 2 m wide 40%
 8000 1/2, 1 1/2, 2, 3 1/2, 4, 5
 15100 1, 2, 3 1/2, 4, 5, 5 1/2, 7
 Acakul 1-2 m
 " " " "
 " " " "

2-3 m 40%
 2/ 3100 1/2, 1 1/2, 3, 4, 5, 5,
 4003 1/2, 2 1/2, 3, 6, 7, 8, 9
 4101 1, 8, 12, 20
 Potrero/acakul <1 m
 " " " "
 other side same way
 " " " "

Y 1-2m wide 60%
 6100 1/2, 2, 2 1/2, 4
 7000 1, 2, 3, 7
 Acakul 3-4 m
 " " " "
 " " " "
 " " " "

11/2/93

- fort 136.0
Side Road 138.7

12/2/93

Clear skies, No wind, Chocojá Rio
Orlery forest

1/655

GRKIF 2

SBWW 1

SOFZ 2

RTHA 2

Toucan 11

MATY 1

Ladder Duck 1 ♀ Woodpecker black & white streaks through head
1 - - - - -

2/ 716

RTTH 1

LIHL 1

MAWA ♀ + ♂ 11

MPRZ ♂ 1

BGGN 1

SBWW 1

3/ 730

AMPLE 11

NOWA 11

BRJA 11

RIKIF 1

SBWW 11

MATY 11

BGGN 1

ALBB 1

4/ 745

Roadside Hawk 1

WCSL 1

BGGQ 11

MATY 11

Toucan 11

TR Kingbird 11

MAWA 1

BGGN 1

12/2/93

S/in hollow above falls

803 BGGN 1

TRKB 1

Ladder Brook ♀

2 white stipes
through back

Saw Woodpecker 1

into barrel
along way

Mary Swall 1

AMRE 1

GFWD 1

BGGQ ♂ ♀ 2

YELA ♂ 1

6/825 by island

Toucan 1

NOWA 1

7/ 846

NOWA 1

YELA ♂ 11

MEBB 11

MAWA 1

BGGN 1

RTHU 1

WCPA 11

8/ 904

NOWA 1

GB Ani 4

RTHU 1

NOUR 1111

COYE 1

BGGN 1

GRKF 1

CAEG 3 GFWD 1

9/ 919

OROR ♂

COYE 1

GDAN

11 RTHU 1

LEFL

WCSB 1

10/ 937

CDARacaco 1

Thrush like Mocking 1

NOWA 1

COYE 1

3m across 33%

20 010

1/2 2 1/2 3 3 1/2 5 6 8 9

Acahual

2-3m

1

1

4

12/2/97

Acahual 2-3 m
"

11011 1, 2, 4, 7, 14

8010 1/2, 2, 3, 4, 5, 10, 13

17010 1/2, 2, 4, 6, 10

a/ 25 acres 40%

10 101 1/2, 3, 4, 8, 10, 25

12 000 1, 5, 6, 8, 10

13 000 1, 6, 7, 8, 9

Rio

Rio

Acahual 1-2 m

Potrero

"

"

B/ 20 m wide 25%

Rio

Rio

Potrero

~~25 acres~~
Acahual 1-2 m

"

"

2400 2, 3, 4, 6, 7

5700 4, 7, 8

0030 1/2, 3, 10, 14, 17

0002 1/2, 2, 2 1/2, 3, 4, 8, 10, 14,
17, 18, 22.

7/ River 25

potrero except right at
river shrubs 3-4 m tall

6/ River ~~25~~ 5 m island 15 m other side
Acahual 1-2 m except
for a single tree 18 m tall

5/ River 20 m wide
Acahual 2-3 m tall

4/ River 25 m wide 40%

8000 1/2, 2, 2 1/2, 3, 4, 6

10100 1, 2, 6, 7, 10

14000 1/2, 1, 2, 2 1/2, 3, 4, 7

Acahual 1-2 m

"

10001 1/2, 1, 1 1/2, 3, 5, 7, 9, 10, 11

5200 1, 2 1/2, 3, 4, 5, 6, 8

Rio
Rio

20m arm 100%

3/ 10,040 $\frac{1}{2}$ 7, 8, 8 $\frac{1}{2}$, 11
 2,021 6, 8, 10, 12, 18
 0013 $\frac{1}{2}$, 8, 8 $\frac{1}{2}$, 9, 11, 15
 9100 10, 11, 12, 13
 5010 1, 10, 13,
 Rio
 Rio
 7000 $\frac{1}{2}$, 1, 8, 9, 10
 6000 $\frac{1}{2}$, 2, 2 $\frac{1}{2}$, 3, 8, 9, 10

2/ 25 wide 60%

Potrero

"

12000, $\frac{1}{2}$, 2 $\frac{1}{2}$, 3, 4, 5

18000 2, 2 $\frac{1}{2}$, 5, 8

10, 1, 10 2, 4, 5, 7, 8, 10

Rio

"

5100 1, 6, 7, 8

12000 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4

~~11102~~

V/ 20m wide 70%

11, 1,00 10, 14

Rio

Rio

Potrero

Potrero

20,00,1 $\frac{1}{2}$, 1, $\frac{1}{2}$, 2, 2 $\frac{1}{2}$, 3,
 4, 6

10,000 1, 2, 18,

35,200 $\frac{1}{2}$, 1, $\frac{1}{2}$, 2, 3, 4, 6, 20

13/2/93

100% overcast, Nowing

Chordia trib to start

1/ 639

NANA

1

YTH

11

RTH

1

WCS

1

NWA

1

WTD

1

BGN

1

LCR

1

Q/654

13/2/92

Corner

LEFL 1
WCPA 1
SOF 1
NWA 1
MAWA 11
AMRE ♂ 11
BBGQ 1
YBC 1
GBSP 11
WTD 11
deeper wit 1
BGGN 1
LTFL 1

3/710

BGGN 1
MAWA 11
AMRE 1
WCPA 1
LEFL 1
GBSP 1
MEBD 11

4/

723

Behind Shrub

MEBD 11
AMRE Ad ♂ 1
GHDO 1
WTD 1
BRSA 111
LEFL 1
BAAN ♀ 1
YBC 1
WCSE 1
MAWA ♂ 1
GBSP 1

DBWW 1
KWA 1

5/

740

MEBD 1
GTGR 1
WTD 1
AMRE ♀ 1
RTHU 1
MAWA ♂ 1

13/2 193

6/759

SUTA 1
NEBB 11
LEFL 1
deeper wit 1
GRWO 11
RUGD 1
GBSP 1
WTD 1
HOWA 1
YTEW 1
MAWA ♂ 1
AMRE ♀ 1
RTHW 1
YBCH 1
GREL 1
WEVI 1

7/818

BAWA 1
WCSE 11
AMRE 11
MAWA 1
RTHW 1
YENW ♂ 1
LEFL 11

YBCH 1

8/833

YENW 1
YBCH 1
deeper wit 1 LEFL
WCSE 1
RTHW 1
GHDO 1
BCFL 2
PBGD 2

9/857 ~~MOOR~~ 1 SOVI
GRHA 1
AMRE 1
YENW 1

Y2m 20%

Pastase
u
u
u

3210 6, 7, 8, 11
2010 Y2, 2 1/2, 5, 5 1/2, 6, 8, 9
0230 Y2, 4, 8, 12

13/2/93

2101 2, 6
0400 2, 3, 4

8/ 1-2m 30%
1010 $1\frac{1}{2}$, 3, 4, 5, $6\frac{1}{2}$
15200 1, 2, 4, $4\frac{1}{2}$, 5, 6, 12, 13
11200 $\frac{1}{2}$, 1, 2, 4
14011 $\frac{1}{2}$, 1, 3, 5, 6, 12.
12100 $\frac{1}{2}$, $3\frac{1}{2}$, $5\frac{1}{2}$
Pasture

"

"

"

7/ 1m wide 30%
2001 $\frac{1}{2}$, $2\frac{1}{2}$, 3, $4\frac{1}{2}$, 10, 12
9000 $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, 4, 5, 6, $6\frac{1}{2}$, 7.
5000. $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, 12.
8220 $\frac{1}{2}$, 1, $2\frac{1}{2}$, 3, 6, 8
8070 $\frac{1}{2}$, 1, 2, 3, $3\frac{1}{2}$, 5, 7, 9
Pasture

"

"

"

6/ 1m 40%
31001 $\frac{1}{2}$, 2, 3, 4, 6, 7, 8, 10, 13.
13000 $\frac{1}{2}$, 1, 2, $2\frac{1}{2}$, 4, 5, 7, 8
0610 $\frac{1}{2}$, $2\frac{1}{2}$, 5, 6
9100 $\frac{1}{2}$, 2, $2\frac{1}{2}$, 4, 6, 8, 10
0201 8, 18

Pasture

"

"

:

#/ 2-3m 50%
8100 $\frac{1}{2}$, 3, 8, 9
5011 2, 8, 11
10010 $\frac{1}{2}$, 1, 2, 3, 4, 5, 7, 12
3110 $\frac{1}{2}$, $1\frac{1}{2}$, 3, 7.
12001 1, 6, 9, 12, 18

Milpa (Corn)

"

Pasture

"

13/2/93

2/ 3m 40%
 14 000 1/2, 1 1/2, 3 1/2, 4, 5, 22.
 17, 500 1/2, 2, 7, 10, 11
 12 000 3, 4, 5, 5 1/2, 15
 25 010 1, 2, 5, 10, 17
 19 000 1, 2, 5, 7, 9
 Pasture

"
 Melpal (corn)
 "

3/ 2-3m 50%
 8021 1, 2, 3, 3 1/2, 5, 6, 8, 12
 10 000 1/2, 1, 2, 6, 7
 6210 1 1/2, 3, 6, 8, 12
 24 000 1/2, 2, 2 1/2, 4
 12 000 1/2, 1, 2 1/2, 3 1/2
 Pasture

"
 "
 "

4/ 2-3 wide 40%
 7110 1/2, 1, 2 1/2, 3 1/2, 4, 10, 12
 8110 1, 2, 6, 8
 10011 1/2, 1, 3, 4
 7120 1, 2, 2 1/2, 6, 7, 9
 25100 1, 3, 3 1/2, 4, 5, 8
 Pasture

"

"

"

5/ 27/ From Flores Magón
 Road

14/2/93

E7 San Martín (San Rafael)

100% clouds, some in overnight
 wind Foggy, visibility 500m

1/644 1m wide Acahual 1-2m
 narrow bud of trees on average
 8m tall, not very dense.

~~25%~~ 22/12/00

BGGQ 1

14/2/93 ^{1m apart} not very dense
 Acacia 2-3m tall
 2/658 1m wide 0/2/1/1 dry stream
 Tropical Kingbird 2
 GFWD
 RBGB ♂ 1

37 716
 GFWD 2 Acacia 2m or
 RTHH 1
 mod density side, 4-5' other
 1 palm no other
 live trees

41/ 737
 Acacia 3 1/2m tall
 high density cover
 shallow but 3m wide.
 COVE 1
 MAWA 2
 KLEWA 1 ♂ 1 ♀
 RTHH 1

51/ 803
 dense acacia 4-6m
 Stream 2-3m wide
 trees bordering stream
 Ave #4 8m
 YEWA
 MAGWAR
 SDWN

6/823 GRCA 11 dense acacia
 MEDD 11 4m tall
 LEFL 1 River 2m
 VBCH 1
 WDO 1
 AMRE 1
~~RETO~~ 1

7/847 YOFL 1 dense
 tall acacia
 AMRE ♀ 11 6-8m
 MAWA 1 2m wide
 GRCA 1 river
 WDO 1
 LEFL 1

8/908 RTAT 2 scrub
~~BAAN~~ Acacia
 GRCA 1 8m tall
 BHTR 1 dense
 MAWA 1
 WLEU 1 2m wide
 AMRE 1
~~DELO~~ 1 wedge billed

14/2 /93

9/929

CBHA	11	
SBWW	1	Scrub
A racuri	1111	4-6 / side
BGGN	1	trees up to
AMRE	1	12m tall
SUTA	1	6th
RTAT	11	
BHTR	1	
WTDO	1	
MAWA	1	

10/944

Acahual

LIHE	1	3-4m tall
MEBB	1	2m wide
DWAN ♀	1	
DCFL	1	
BRAT	1	
RTHU	1	
AMRE Jan 8	1	

11/1004

Acahual

WIWA	1	8-10m
RTHU	1	Stream 2m
WTDO	1	
VBCI	1	
LIHE	1	
BDCL	1	AMRE 1

91.7 No CFB de Agua

15/2/93

Clear Skies, Nowing
Newo Guenero

1/644

60%
Mel BB 11 1m away
SBWW 1 1-2m ahead
YKWA 1
RTHU 1 6/4/0/1
BBGA 1 in point
BGGN 1 10-12m
GBSP 1 (1-18m)
NOWA 11
WCSE 11 Dot reso

3/719

50% overcast
light clouds
MAWA 1/1
BHSA 11 20% in
RLH 1/1 dense ahead
KEWA 1 4-6m tall
RTHU 1 50% low density
BGTA 11 trees 6-8m tall
WIWA 1
LEFL 1 10/4/1/1
WCSE 1
WTPA 11/1
YOF 1 1m wide
SUTA 1

2/701

60%
WCSE 1 3m wide
SUTA 1
NOWA 1 dense ahead
SBWW 1 4-6m tall
WIWA 1
RU CR 11 11/05/6
GRCA 11
WTD 1
RTHU 1

4/736

60%
SDWW 1 dense scrub
WTD 1 4-5m tall
MAWA 1 2 trees 10m tall
RTHU 1 bordered by 1m
GRCA 1 tall ahead
BGTA 1 potione
LEFL 1
YKWA 1/1

15/2/93

S/748

MEBB	1	3m wide
Toucan	1	dense scrub
SBWW	1	5-6m
YWJA	11	tall
VTUH	11	40%
COVE ♀	1	bordered by
BGTA	11	1-2 m acacia
TRKB	1	
MAWA	11	1 tall dead
AMRE	1	tree 15m
BGGN	1	
WCSE	1	
RTHU	1	
GRCA	1	
LEPL	11	

6/804

TRKI	1	3M wide
LEPL	1	scrub
COVE ♀	1	dense 40%
SOFL	11	3-4m
GRCA	11	bordered by
GCVE	1	1-2 m Acacia
YOFL	1	No trees
SBWW	2	
BBFL	11	

RTHU 11
WCSE ♀ 11
GBSP 1

~~8/836~~ NATY 11
MAWA 3 1
2m wide
+ marsh
BRFL 1
60% 4-6m
tall dense acacia
SBWW 2
3 trees 8m
40% potamo
(wet?)
~~AMRE 1~~
YENH ♂ 1
YTUI 1
WCSE 11

8/ 9/2

WFPA	11	80% dense
YTEH	11	Acacia
BGTA	1	5-6m
AMRE ♀	11	in del
TRKB	1	banana
BGGN	1	1 dead tree 3m
MAWA	1	1m wide

16/2/93
Rio Chocoma
high cloud, no wind

V 648

3m across
AMRE 11 9(11) 50% dense
MAWA 1 6-8m
GRCA 11 2 trees 10-12m
TRKB 1 25% 1-2 dense
25% pasture

2/700

4m across
WCS 1 50% dense
AMRE 3 1 8-10m
MAWA 8 11? 50% pasture
Yell WAB 1 chured Mayra
AMRE 1
VBCH 1 16 trees 12-15m
RTH 1 all 000/16
LEFL 1 1 20m tall

3/715

4m wide
COYE 1 low density along
BGTA 111 stream 6-8m
WCS 1 bordered by pasture
AMRE 2
TRKB 1
COYE 1

4/729

3m wide
BDGR 1 6-8m
LEFL 1 low density
WCS 1111 50%
RTH 1 50% pasture
WCS 1
BGTA 4
COFL 1
SUTA 1
GAEG 5
SOFL 1
NOOR 1
OROR 1

5/744
AMRE 1 3m wide
MAWA 1 50% scrub
RDB 1 6-8m
SOFL 11 2 trees 12m
BDL 1 bordered by
YTVI 1 pasture
RTH 1
NOW 1
COYE 11
TRKB 1
BDL 1

16/2/93

LEEL
YLANA 8

20/2/93

La Esperanza 71.2 M¹

72.3 (Map D45) Juncos??
- GT 27

Mostly tall 10-15m scrub
growth all the way along from
La Esperanza except for potrero
at this point road bearing
144°. Forested ridges toward
on bearing 222.

Patch extending 200m along
road, depth uncertain, 4-6m
tall moderate density

Power line crosses road 100m
further South. Other side
Chile Milpa

Roll #5 Frames 4-6
other 7

Note GT27.1

Map D45

72.5-6 beginning of opening
Milpas with corn and chile
Some / mostly over grown for
1-2 years moderate density vegetation
1-2m tall with some scattered
tall trees in small clumps.

72.8 Clean potrero with

this dead trees W of road
likely that just after Note 27.1

73.2 Metzaboc Rd.

81.2 Back again

Above positioning less certain
May need to try and place things
in reference to X road instead
of bearing.

GT 27.2 (No reference)

82.1 - 82.5 E side of road
2-4m tall dense scrub all
along road at least 100m deep
possibly more, rising up to hills beyond
some with taller forest others not.

2/2/92

82.9 Enter El Tumbó

83.5 Cross Arroyo of El Tumbó

GT 28 Approx location on map D 45 / Uruguay

83.8 Road bearing 144°

To west, break between open pasture (south) extending 200m W and 200m South, and

③ Second growth 2-3m tall dense.

To East all along (300m north and 200m south) dense second growth 3-4m tall [depth is not known] Exact position not identified

Roll #5 Frame 8-9

GT 29 Approx location on map D 45 / Uruguay

85.6 Road leading off to East 2.5 km to Agua Dulce Tehuacán Junction.

East side (S of junction) 50m x 150m x 100m Triangle of milpa chile bordered along road by 2-3m shrubs (1m wide) base of

triangle (away from roads) is hill with 10-12m tall trees and dense understory.

West side (from junction south) 100m x 50m wide 2-3m tall second growth mod density. with power line crossing through parallel to road.

50x50 Chile Field then 150x50 acacia

Roll #5 Frame 11-13

86.6 Cross Tumbó river

Approx location on map D 45 / Uruguay

GT 30 River South → North

~~At~~

road on W side bordered by 8-10m tall trees

NW pasture largely clear with a few scattered trees, 200m x 25-100

SW 1-2m tall acacia

100m x 200m

NE cattle in pasture low density 1-2m acacia

Roll #5 Frame 14-16

20/2/93

86.8 Fr 17

Picture of typical pasture

Note

87.8 - 88.5 GT 30.1

map D45

imagery
apex

large valley with mixture
of clean pasture and 3-4m
acacia
with Forestal Hills to
East

88.7 Lacandon
89.3 Exit

89.9 Cross Tumbo again

GT 31 map D55/imagery both good

91.1 Naha Lake Bearing 250°

To East 150m to base of forestal
hill, 3-4m acacia dense extends
100m either direction in a circle

To West 100m to north taller
scrub starts 8-10m, between road
and lake, some houses, mostly
4-6m acacia

Road curves to West going
South, then runs along lake
at that point 1/2 ha clump of
trees 15-20m tall

Roll #5 Fr. 18-21

92.0 Entry into Naha
opposite N end of runway.

21

21/2/93

- 93.3 Start N. end of
runway Naha

- 96.4 PLMEX compound
opposite Naha L. Dental

GTJ2 97.5 Map D55/Jugay

Road bearing 226°
End of lake 124°
high peak due south. Lake

SE section pasture low density
shrubs < 1 m tall scattered stumps and
dead trees. Extends 300 m along road
(at last, can't see around curve) 100 m
deep (straight East) but getting broader
going further south.

West side of road, Forest to north in
hills opposite lake, then $\frac{1}{2}$ ha patch
(100 m long 50 deep) 2-3 m over ground
milpa. then 6-8 m tall patch 50 m deep
50 m long with scattered dead trees
up to 20 m tall

Roll #5- 23-25

GTJ3 Fr#26 98.5
picture taken at
Tufienillo looking north along road
just below open patch on hillside
which is an overgrown milpa
(walked on Imagay)

Map D55/Jugay.



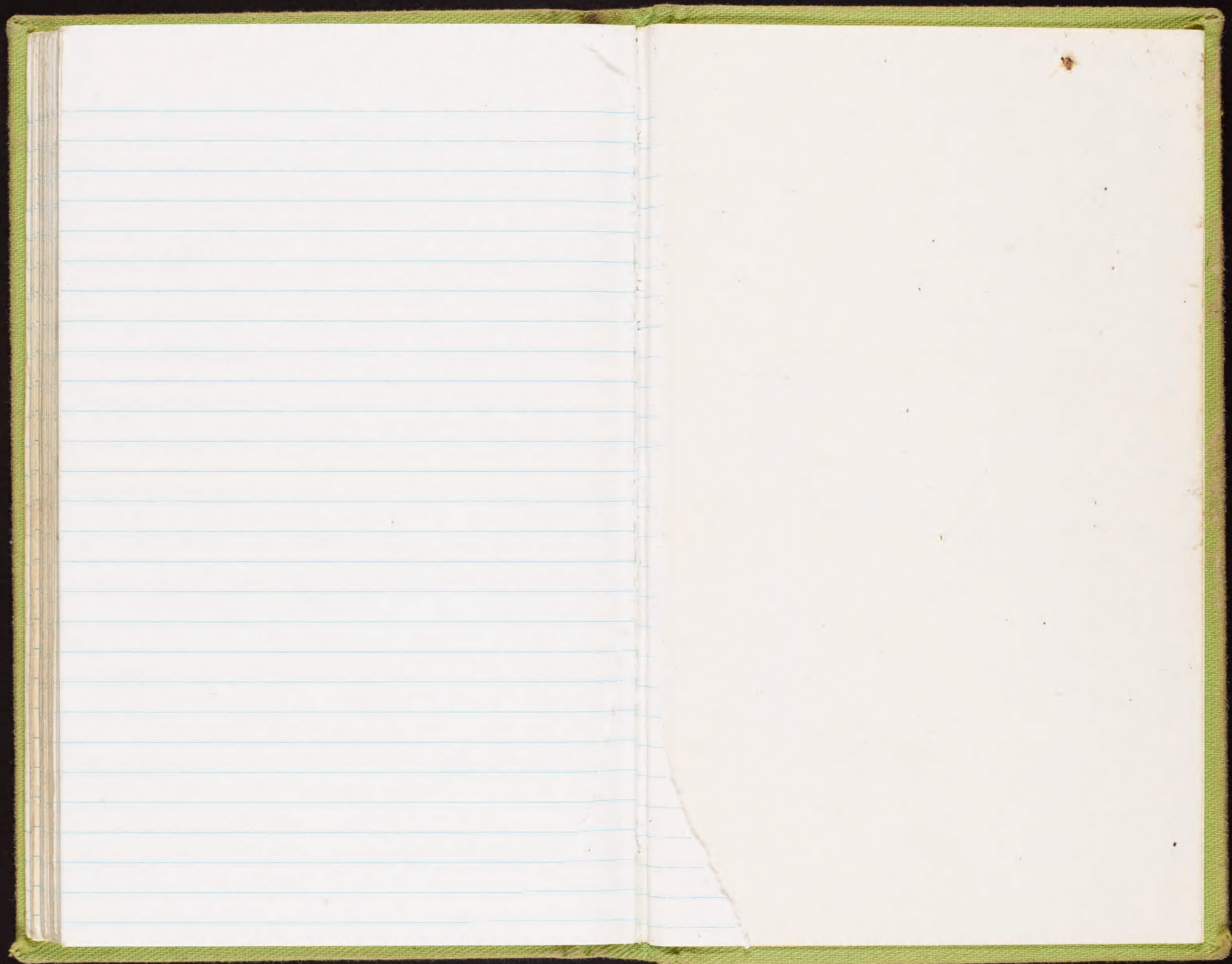
23/2/93

90% leave X road at
N.L.

91.5' Const. rate

Roll 5 # 32-36

dominated by pasture
with 1/2 m grass, scattered
small trees at very low
density, (4-6m tall) interspersed
with patches of tall reed
growth generally 18-20m tall
but with trees up to 25m



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✓
2.7
1.6
—
16.2
270
—
43.2

